SIEMENS

Data sheet 7PV1513-1AQ30



Timing relay, electronic ON delay 1 change-over contact, 1 time range 5...100 s 24 V/110 V AC and 24 V DC with LED, Screw terminal

product brand name	SIRIUS			
product designation	timing relay			
design of the product	slow-operating			
product type designation	7PV15			
General technical data				
product component semi-conductor output	No			
product extension required remote control	No			
product extension optional remote control	No			
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V			
test voltage for isolation test	2.2 kV			
degree of pollution	2			
surge voltage resistance rated value	4 000 V			
test voltage for surge voltage test	4 800 V			
protection class IP	IP20			
shock resistance according to IEC 60068-2-27	11g / 15 ms			
vibration resistance according to IEC 60068-2-6	10 55 Hz: 0.35 mm			
mechanical service life (switching cycles) typical	10 000 000			
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000			
adjustable time	5 100 s			
relative setting accuracy relating to full-scale value	5 %; +/-			
minimum ON period	35 ms			
recovery time	500 ms			
reference code according to IEC 81346-2	K			
relative repeat accuracy	2 %; +/-			
influence of the surrounding temperature	2% in complete temperature range for the set duration			
power supply influence	2% in complete voltage range for the set duration			
Substance Prohibitance (Date)	05/01/2012			
Control circuit/ Control				
type of voltage of the control supply voltage	AC/DC			
control supply voltage 1 at AC				
● at 50 Hz	100 127 V			
● at 60 Hz	100 127 V			
control supply voltage 2 at AC				
at 50 Hz rated value	24 V			
at 60 Hz rated value	24 V			
control supply voltage frequency 1	50 60 Hz			
control supply voltage 1				
at DC rated value	24 V			

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operating range factor control supply voltage rated	
value at DC	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.85
• full-scale value	1.1
Switching Function	
switching function	
 ON-delay 	Yes
 ON-delay/instantaneous contact 	No
passing make contact	No
 passing make contact/instantaneous contact 	No
OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	No
 flashing symmetrically with interval start 	No
 flashing symmetrically with pulse start/instantaneous 	No
 flashing symmetrically with pulse start 	No
flashing asymmetrically with interval start	No
flashing asymmetrically with pulse start	No
switching function	
star-delta circuit with delay time	No
star-delta circuit	No
switching function with control signal	
 additive ON-delay 	No
 passing break contact 	No
 passing break contact/instantaneous 	No
OFF delay	No
 OFF delay/instantaneous 	No
 pulse delayed 	No
 pulse delayed/instantaneous 	No
pulse-shaping	No
pulse-shaping/instantaneous	No
 additive ON-delay/instantaneous 	No
ON-delay/OFF-delay	No
 ON-delay/OFF-delay/instantaneous 	No
 passing make contact 	No
passing make contact/instantaneous contact	No
switching function of interval relay with control signal	
 retrotriggerable with deactivated control signal/instantaneous contact 	No
 retrotriggerable with switched-on control signal 	No
 retrotriggerable with switched-on control signal/instantaneous contact 	No
retriggerable with deactivated control signal	No
design of the control terminal non-floating	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
delayed switching	0
	0
 instantaneous contact 	

number of CO contacts • delayed switching • instantaneous contact number of CO contacts • delayed switching • instantaneous contact • delayed switching • instantaneous contact • maximum • at 24 V • at 250 V • perational current of auxiliary contacts as NC contact at AC-15 • at 24 V • at 250 V • operational current of auxiliary contacts as NC contact at AC-15 • at 24 V • at 250 V • operational current of auxiliary contacts as NO contact at AC-15 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 1250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 1250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 1250 V • at 250 V •				
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product function	Inputs/ Outputs			
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conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid 2 kV network connection / 1 kV control connection 2 kV No 10 V/m Basic insulation none No No 11 kV 6 No 12 kV 13 kV 14 kV contact discharge / 8 kV air discharge 15 kV contact discharge / 8 kV air discharge 16 kV contact discharge / 8 kV air discharge 18 kV con	Electromagnetic compatibility			
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due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid 1 kV 10 V/m 8 kV contact discharge / 8 kV air discharge 10 V/m 10 Vim 10		2 kV		
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electrostatic discharge according to IEC 61000-4-2 Safety related data type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • solid 1x (0.2 2.5 mm²) • finely stranded with core end processing • tx (0.2 1.5 mm²) • at AWG cables solid 4 kV contact discharge / 8 kV air discharge 4 kV contact discharge / 8 kV air discharge 4 kV contact discharge / 8 kV air discharge 4 kV contact discharge / 8 kV air discharge 4 kV contact discharge / 8 kV air discharge		10 V/m		
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid Basic insulation No 100 100 100 100 100 100 100				
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid Basic insulation No 10 10 10 10 10 10 10 10 10 1		The contact discharge 7 of the all discharge		
category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • solid • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid none No 1x (0.2 2.5 mm²) 1x (0.2 2.5 mm²) 1x (0.2 1.5 mm²) 1x (0.2 1.5 mm²) 1x (0.2 1.5 mm²)		Rasic insulation		
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid No Screw-type terminals 1x (0.2 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 1.5 mm²) 1x (0.2 1.5 mm²)	<u> </u>			
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and control circuit type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • solid 1x (0.2 2.5 mm²) • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid 1x (0.2 1.5 mm²) 1x (0.2 1.5 mm²)		No		
type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid 1x (0.2 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.2 1.5 mm²) 1x (24 14)		INU		
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 finely stranded with core end processing finely stranded without core end processing at AWG cables solid 1x (0.25 1.5 mm²) 1x (0.2 1.5 mm²) 1x (24 14) 	type of connectable conductor cross-sections			
 finely stranded without core end processing at AWG cables solid 1x (0.2 1.5 mm²) 1x (24 14) 	• solid	1x (0.2 2.5 mm²)		
• at AWG cables solid 1x (24 14)		1x (0.25 1.5 mm²)		
		1x (0.2 1.5 mm²)		
1.404.0	finely stranded without core end processing			
• at AWG cables stranded 1x (24 14)				
connectable conductor cross-section		1x (24 14) 1x (24 14)		
• solid 0.2 2.5 m ²	at AWG cables solidat AWG cables stranded			
• finely stranded with core end processing 0.25 1.5 m ²	at AWG cables solid at AWG cables stranded connectable conductor cross-section	1x (24 14) 0.2 2.5 m ²		
• finely stranded without core end processing 0.2 1.5 m²	 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing 	1x (24 14) 0.2 2.5 m ²		
AWG number as coded connectable conductor cross	 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing 	1x (24 14) 0.2 2.5 m ² 0.25 1.5 m ²		

section			
• solid	24 14		
stranded	24 14		
nstallation/ mounting/ dimensions	27 IT		
mounting position	any		
fastening method	snap-on fastening on 35 mm	n standard rail	
height	90 mm		
width	17.5 mm		
depth	66.7 mm		
required spacing			
with side-by-side mounting			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
 for grounded parts 			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
 for live parts 			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
mbient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +55 °C		
during storage	-40 +70 °C		
during transport	-40 +70 °C		
relative humidity during operation	15 85 %		
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity

Confirmation











Conformity

Declaration of Conformity

Test Certificates

other

UK CA Type Test Certificates/Test Report

Environmental Confirmations

Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7PV1513-1AQ30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1513-1AQ30

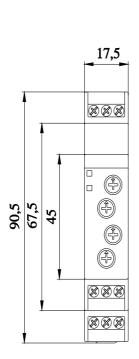
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

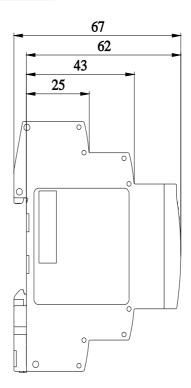
https://support.industry.siemens.com/cs/ww/en/ps/7PV1513-1AQ30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1513-1AQ30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/7PV1513-1AQ30/manual





Alle Bemassungswerte sind in Millimeter (mm) angegeben All dimensions are in millimeters (mm)

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